PATENT COOPERATION TREATY REC'D 1 1 MAR 2005 From the INTERNATIONAL SEARCHING AUTHORITY JOSEPH A. SMITH P.O. BOX 16951 MOBILE, AL 36616 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/02750 29 January 2004 (29.01.2004) 30 January 2003 (30.01.2003) International Patent Classification (IPC) or both national classification and IPC IPC(7): B63B 1/22 and US Cl.: 114/285 Applicant AUBURN UNIVERSITY 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis (b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

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Form PCT/ISA/237 (cover sheet) (January 2004)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/02750

BUX IV	o. I Basis of this opinion					
1. With it was	regard to the language, this opinion has been established on the sfiled, unless otherwise indicated under this item.	ne basis of the international application in t	he language in which			
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2. With claims	regard to any nucleotide and/or amino acid sequence dis ed invention, this opinion has been established on the basis of:	closed in the international application an				
a.	type of material		•			
	a sequence listing					
	table(s) related to the sequence listing					
ъ.	format of material	•				
	in written format					
,	in computer readable form		•			
c.	time of filing/furnishing	•				
	contained in international application as filed.					
	filed together with the international application in comp	outer readable form.				
	furnished subsequently to this Authority for the purpose		•			
3.	In addition, in the case that more than one version or copy filed or furnished, the required statements that the information the application as filed or does not go beyond the application a	n in the subsequent or additional conjectic	thereto has been identical to that in			
4. Additio	onal comments:	·				
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orm PCT/	(ISA /237/Rox No. 1) (In-us-12004)					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/02750

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	3-6, 8-13, 15, 17-20	YES		
	Claims	1,2,7,14,16,21	NO		
Inventive step (IS)	Claims	3-6,8-13,15,17-20	_YES		
• • •		1,2,7,14,16,21	NO		
Industrial applicability (IA)	Claims	1-21	YES		
in approximately (in a)		NONE	NO		
					
2. Citations and explanations:	T Article 33/	2) as being anticipated by Frederick, Weiler or Kerche	eval Fach		
of Frederick, Weiler, and Kercheval disclose a hull in	ncluding a plu	relity of flaps having a rear edged hinged to the hull b	ottom.		
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